ABSTRACT OF THE INVENTION

A light-producing device integrated with a power monitoring system include a light-producing device from which light is emitted in wavelengths that can range from approximately 700 nm to approximately 3 microns. A semi-transparent sensor is located such that at least a portion of the light emitted passes through the semi-transparent sensor and at least a portion of light is absorbed by the semi-transparent sensor. The semi-transparent sensor is configured to be semi-transparent at wavelengths that can range from 700 nm to 3 microns. The semi-transparent sensor may also be used with an external light source, for example with fiber-optic cables.

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